



CODESYS User Newsletter 04/2025

Product information

New in the CODESYS Store

You are a production company and want to switch production to CODESYS-based controllers (e.g. virtual controllers)? You would like to have prioritized support access for the development and commissioning of the first systems over a certain period of time (e.g. 3 months)?

Then we have a special solution for you in the CODESYS Store:
Our CODESYS Premium Support for 1 month as a one-time purchase or as a subscription that renews automatically every month. Further information can be found [here](#).

Do you have a major project coming up? Then buy [12 months](#) and profit from your price advantage right away.



Release CODESYS V3.5 SP21

The new Service Pack 21 of CODESYS V3.5 was released on March 18.
Highlights of the new version:

Engineering

- Configuration option for compiler warnings, e.g. for output as an error message
- Update of the supplied basic libraries
- Simple scripting support in the Test Manager for CI workflows
- Selection of the compiler version for libraries
- Reservation of new keywords for the 4th edition of IEC 61131-3
- Many CODESYS sample projects available in the online help and as an

installable package

- Improvements in the CODESYS Installer, including filters for CODESYS sample projects
- Possibility to integrate your own help content into the offline help
- Update of the user interface for network license servers

Runtime

- Completely revised Deploy Tool now in one interface for all Control SL products
- New: Certified, hardware-independent, virtual security control with independent licensing
- PLCHandler: Support for ARM64 access on Windows systems
- Support of application-based licensing for device manufacturers with customized runtime system
- Password policy for device user management
- CODESYS Redundancy: New interface for data synchronization and other improvements
- Support of XDP for Intel i225/i226 interfaces
- Numerous detailed improvements in the Runtime Toolkit and for Control SL products

Safety

- New: Certified, hardware-independent, virtual safety controller
- Safety SIL2: New release based on V3.5 SP21, now including support for PLCopen Safety FB2 V2.0 and other improvements
- Safety Extension: New version
- Safe Control Core: Support for ARM/ARM64 devices, FSoE, and external libraries

Automation Server

- New: Integrated certificate management for existing certificates and new certificates to be created
- New: Encrypted connection/communication between Edge Gateway and connected controllers

Visualization

- Target Visu Overlay: Performance optimizations and scrolling of frames with multi-touch
- Responsive design: positioning of elements depending on the size of the display client
- Client-specific display language
- Improvements to alarm management, XY chart and trend element
- Scripting: Automated creation and design of visualizations via Python script

Motion CNC Robotics

- Automatic restart of axes after communication errors
- Additional segment types for cam disks
- High-precision digital switches
- Robotics: Improved termination of movements through subsequent movements
- Robotics: Logging movements

Fieldbus

- Display of the bus cycle task in the device tree
- Support of CAN FD as communication protocol between CODESYS Development System and target device
- Modbus: Network redundancy, integrated in CODESYS Redundancy
- PROFINET: New V2.45 test specification successfully passed, FBs for I&M configuration
- PROFISAFE diagnostics
- Further detailed improvements in almost all fieldbus systems

Communication

- OPC UA: Certificate for the Embedded 2017 UA server profile with new communication add-on
- OPC UA Pub/Sub: Improvements in the library
- IIoT Libraries: Update of the library bundle

We recommend to always work with the latest version. Simply download the setup free of charge from the CODESYS Store. Or install it directly via an existing version of the CODESYS Installer and take the selection of add-on components from an existing installation.

Breaking News:

1st place in the reader poll Products of the Year 2025

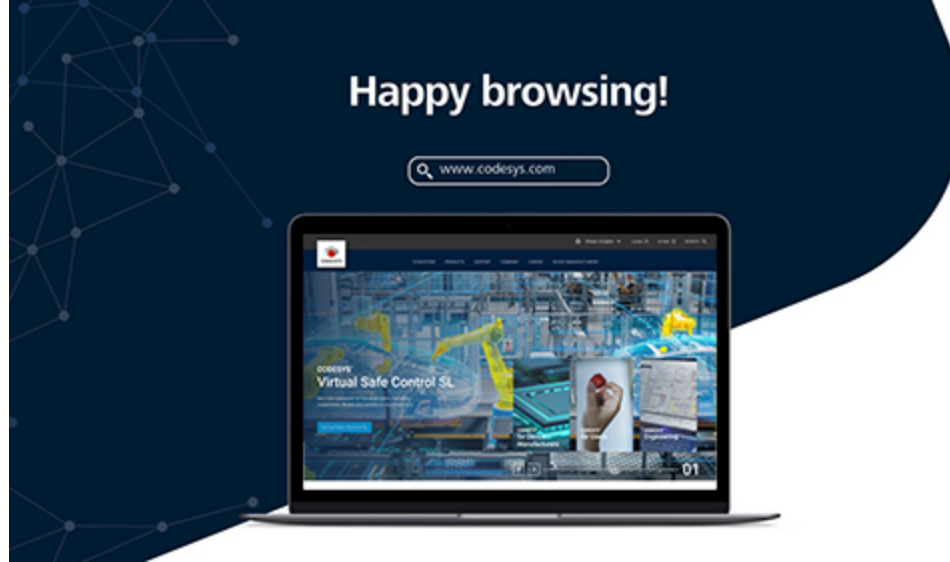
CODESYS Static Analysis has achieved **1st place** in the "Software & IT" category in the "Products of the Year 2025" readers' poll conducted by the trade magazine Computer&Automation. Thank you for contributing to this top position with your vote ! 😊



[Here](#) you will find the report on the award ceremony in March 2025.

"Germany's digital pioneers 2025 - automation & system technology providers"

"Digital pioneers are characterized by their innovative spirit and agility, using new technologies and reacting quickly to market changes. They rely on data-supported decisions, focus on the customer and promote an open corporate culture that supports creativity and collaboration. The fact that **CODESYS** is perceived as a pioneer in this area is demonstrated by its recent **award from the F.A.Z. Institute "Germany's Digital Pioneer 2025" in the automation & system technology provider category**. The company has now received this award for 3 years in a row, demonstrating its high level of continuity."



Our new website is online - updated, restructured, target-oriented!

We are pleased to present you our new website!

With a fresh design and clearly structured navigation, you can now find exactly the information that is relevant to you even faster.

take a look

 www.codesys.com

Meet the CODESYS team!

On-site:

Meet the CODESYS team in person at the following events:

- **ARC Forum Europe**, 05.-07. Mai 2025, Sitges (Barcelona)/Spain
[Further information and registration](#)
- **Automation 2025**, 01.-02. Juli 2025, Baden-Baden/Germany
Leading congress for measurement and automation technology
CODESYS presentation: „Virtuelle SPS – Motivation, Anwendung und Benefit“
[Further information and registration](#) (German language)

CODESYS Group | We software Automation.

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